

For Research Use Only

CoraLite®488-conjugated EIF4G1 Monoclonal antibody



Catalog Number:CL488-67199

Basic Information

Catalog Number: CL488-67199	GenBank Accession Number: BC007788	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1981	CloneNo.: 2B10G8
Source: Mouse	Full Name: eukaryotic translation initiation factor 4 gamma, 1	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG1	Calculated MW: 1600 aa, 176 kDa	Excitation/Emission maxima wavelengths: 488 nm/515 nm
Immunogen Catalog Number: AG8357	Observed MW: 240-250 kDa	

Applications

Tested Applications: IF	Positive Controls: IF : HepG2 cells,
Species Specificity: Human, mouse, rat	

Background Information

Eukaryotic cellular messenger RNAs are posttranscriptionally modified by addition of an m(7)GTP moiety to the 5-prime terminus, referred to as a cap. Recognition of the cap structure and unwinding of mRNA secondary structure during the initiation phase of protein synthesis is catalyzed by initiation factors of the eIF4 group. EIF4G1, a subunit of eIF4 gamma, forms various complexes with the other eIF4 polypeptides [PMID: 7601469]. Mutations in the EIF4G1 gene, encoding a component of the eIF4F translation initiation complex, were recently reported as a possible cause for the autosomal dominant form of Parkinson's disease [PMID:22658323]. The calculated molecular weight of EIF4G1 is 175 kDa, but modified EIF4G1 is about 220-240 kDa. (PMID: 18426977)

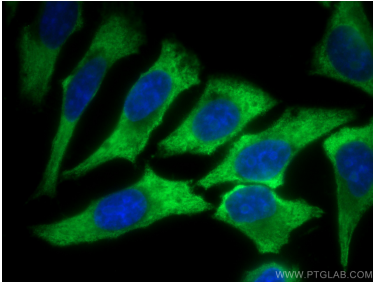
Storage

Storage:
Store at -20°C. Avoid exposure to light.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite®488 EIF4G1 antibody (CL488-67199, Clone: 2B10G8) at dilution of 1:200.